

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.11.2023

Version number 10 (replaces version 9)

Revision: 13.11.2023

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

· **1.1 Product identifier**

· **Product name: Iron Reagent FE6**

· **Catalog number:** 56Z006398, 56L006365, 56U006365, 56L006330, 56U006330, 56R023790, 56L0063, SDT113

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

· **Application of the substance / the preparation:** Reagent for water analysis

· **1.3 Details of the supplier of the safety data sheet**

· **Supplier:**

Tintometer GmbH  
Schleefstraße 8-12  
44287 Dortmund  
Made in Germany  
www.lovibond.com

phone: +49 (0)231 94510-0  
e-mail: sales@lovibond.com

The Tintometer Limited  
Lovibond® House  
Sun Rise Way  
Amesbury  
Wiltshire SP4 7GR  
United Kingdom

phone : +44 1980 664800  
e-mail: SDS@lovibond.uk

· **Informing department:**

e-mail: sds@lovibond.com  
Product Safety Department

· **1.4 Emergency telephone number:**

+44 1235 239670  
Languages: English

#### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

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**Product name: Iron Reagent FE6**

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**Hazard pictograms**


GHS05 GHS06

**Signal word** Danger

**Hazard-determining components of labelling:**

 ammonium mercaptoacetate  
 mercaptoacetic acid

**Hazard statements**

 H290 May be corrosive to metals.  
 H301 Toxic if swallowed.  
 H332 Harmful if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.

**Precautionary statements**

 P260 Do not breathe mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P310 IF exposed or concerned: Immediately call a POISON CENTER/doctor.  
 P405 Store locked up.

**2.3 Other hazards**

 The following applies to Mercaptane in general: offensive odour  
 CAS 68-11-1 / 5421-46-5: Danger by skin resorption.  
 Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

**Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.

**Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**
**Description:** aqueous solution

**Dangerous components:**

CAS: 5421-46-5 EINECS: 226-540-9 Reg.nr.: 01-2119531489-31-XXXX	ammonium mercaptoacetate ⚠ Acute Tox. 3, H301; Acute Tox. 2, H330; ⚠ Met. Corr. 1, H290; ⚠ Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 ATE: LD50 oral: 100 mg/kg LC50/4h inhalative: 0.51 mg/l	20–30%
CAS: 68-11-1 EINECS: 200-677-4 Index No: 607-090-00-6 Reg.nr.: 01-2119494933-24-XXXX	mercaptoacetic acid ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314	10–20%

**Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information**

 Personal protection for the First Aider!  
 Instantly remove any clothing soiled by the product.  
 Remove breathing apparatus only after soiled clothing has been completely removed.

**After inhalation**

Supply fresh air or oxygen; call for doctor.

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In case of irregular breathing or respiratory arrest provide artificial respiration.

Call a doctor immediately.

- **After skin contact**

Instantly wash with polyethylene glycol 400.

Instantly rinse with water.

Call a doctor immediately.

- **After eye contact**

Rinse opened eye for several minutes (at least 15 min) under running water.

Call a doctor immediately.

- **After swallowing**

Rinse out mouth and then drink 1-2 glasses of water.

Do not induce vomiting; instantly call for medical help.

- **4.2 Most important symptoms and effects, both acute and delayed:**

Irritation and corrosion

allergic reactions

absorption

after inhalation:

coughing

breathing difficulty

damage to the affected mucous membranes

after swallowing:

sickness

vomiting

strong caustic effect.

after absorption of large amounts:

headache

drop in blood pressure

CNS disorders

respiratory paralysis

- **Danger**

Danger of gastric perforation.

Danger of pulmonary oedema.

- **4.3 Indication of any immediate medical attention and special treatment needed:**

If swallowed or in case of vomiting, danger of entering the lungs

Subsequent observation for pneumonia and pulmonary oedema

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

- **5.2 Special hazards arising from the substance or mixture**

mixture with combustible ingredients

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

Nitrogen oxides (NO<sub>x</sub>)

Sulphur oxides (SO<sub>x</sub>)

Ammonia (NH<sub>3</sub>)

Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

- **Additional information**

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Suppress (knock down) gases/vapours/mists with a water spray jet.

Ambient fire may liberate hazardous vapours.

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### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

- **Advice for non-emergency personnel:**

Wear protective equipment. Keep unprotected persons away.

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Avoid substance contact.

Do not breathe vapors/spray.

Ensure adequate ventilation

Use breathing protection against the effects of fumes/dust/aerosol.

· **Advice for emergency responders:** Protective equipment: see section 8· **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, universal binders).

Dispose of contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**· **Advice on safe handling:**

Open and handle container with care.

Prevent formation of aerosols.

Work only in fume cupboard.

· **Hygiene measures:**

Do not inhale gases / fumes / aerosols.

Do not get in eyes, on skin, or on clothing.

Take off immediately all contaminated clothing.

Store protective clothing separately.

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke when using this product.

· **7.2 Conditions for safe storage, including any incompatibilities**· **Requirements to be met by storerooms and containers:**

Store in cool location.

Store only in the original container.

· **Information about storage in one common storage facility:**

Store away from metals.

Store away from oxidising agents.

· **Further information about storage conditions:**

Store in a locked cabinet or with access restricted to technical experts or their assistants.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

Protect from the effects of light.

Protect from humidity and keep away from water.

· **Recommended storage temperature:** 20°C +/- 5°C· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**· **Components with limit values that require monitoring at the workplace:****CAS: 68-11-1 mercaptoacetic acid**WEL (Great Britain) Long-term value: 3.8 mg/m<sup>3</sup>, 1 ppm· **Regulatory information** WEL (Great Britain): EH40/2020· **DNELs**

Derived No Effect Level (DNEL)

**CAS: 5421-46-5 ammonium mercaptoacetate**

Dermal DNEL 2.06 mg/kg (Worker / long-term /systemic effects)

**CAS: 68-11-1 mercaptoacetic acid**

Dermal DNEL 1.6 mg/kg (Worker / long-term /systemic effects)

Inhalative DNEL 4.5 mg/m<sup>3</sup> (Worker / acute / systemic effects)

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		1.13 mg/m <sup>3</sup> (Worker / long-term /systemic effects)
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**Recommended monitoring procedures:**

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

**PNECs**

Predicted No Effect Concentration (PNEC)

<b>CAS: 5421-46-5 ammonium mercaptoacetate</b>	
PNEC	0.38 mg/l (Sewage treatment plant) 0.0038 mg/l (Marine water) 0.38 mg/l (Aquatic intermittent release) 0.038 mg/l (Fresh water)
<b>CAS: 68-11-1 mercaptoacetic acid</b>	
PNEC	0.0053 mg/kg (Soil) 0.0009 mg/kg (Fresh water sediment)

· **Additional information:** The lists that were valid during the compilation were used as basis.

**8.2 Exposure controls**
**Engineering measures:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

**Individual protection measures, such as personal protective equipment**

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

**Eye/face protection**

Tightly sealed safety glasses.

Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.

**Hand protection**

Protective gloves.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

**Material of gloves**

Butyl rubber, BR

nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.5$  mm

**Penetration time of glove material**

Value for the permeation: Level = 1 ( < 10 min )

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**As protection from splashes gloves made of the following materials are suitable:**

nitrile

Recommended thickness of the material:  $\geq 0.2$  mm

Value for the permeation: Level = 1 ( < 10 min )

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Other skin protection (body protection):** Protective work clothing.

· **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.

· **Recommended filter device for short term use:** Filter A

· **Environmental exposure controls** Avoid release to the environment.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**
**Physical state**

Fluid

**Form:**

Liquid

**Colour:**

Light brown

**Odour:**

Like rotten eggs (mercaptans)

**Odour threshold:**

Not determined.

**Melting point/Freezing point:**

Not determined.

· **Boiling point or initial boiling point and boiling range** Not determined.

**Flammability**

mixture with combustible ingredients

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· <b>Explosive properties:</b>	Product is not explosive.
· <b>Lower and upper explosion limit</b>	
Lower:	Not applicable.
Upper:	Not applicable.
· <b>Flash point:</b>	131°C (CAS: 68-11-1 mercaptoacetic acid)
· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH at 20°C</b>	4.5
· <b>Kinematic viscosity</b>	Not determined.
· <b>Solubility</b>	
· <b>Water:</b>	Fully miscible
· <b>Partition coefficient n-octanol/water (log value)</b>	Not applicable (mixture).
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density at 20°C:</b>	1.1 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined.
· <b>Relative gas density</b>	Not determined.
· <b>Particle characteristics</b>	Not applicable (liquid).
<b>9.2 Other information</b>	
· <b>Information with regard to physical hazard classes</b>	.
· <b>Corrosive to metals</b>	May be corrosive to metals.
· <b>Metals that are corroded by the substance or mixture</b>	Information on incompatible materials can be found in Sections 7 and 10.
· <b>Other safety characteristics</b>	
· <b>Oxidising properties:</b>	none
· <b>Additional information</b>	
· <b>Solids content:</b>	0 %
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0 %
· <b>Water:</b>	> 50 %

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** see section 10.3
- **10.2 Chemical stability**  
Stable at ambient temperature (room temperature).  
sensitive to air
- **10.3 Possibility of hazardous reactions**  
Corrosive action on metals  
Reacts with certain metals  
Reacts with organic substances  
Reacts with strong acids  
Reacts with alkalis releasing ammonia  
Reacts with strong alkalis and oxidizing agents.
- **10.4 Conditions to avoid** strong heating
- **10.5 Incompatible materials:** metals
- **10.6 Hazardous decomposition products:**  
hydrogen sulphide  
In case of fire: see section 5.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
Classification according to calculation procedure:  
Toxic if swallowed.  
Harmful if inhaled.

· <b>Acute toxicity estimate (ATE<sub>(MIX)</sub>) - Calculation method:</b>		
Oral	CLP ATE <sub>(MIX)</sub>	166 mg/kg (.)

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Inhalative	CLP ATE <sub>(MIX)</sub>	3.4 mg/l/4h (aerosol (dust, mist)) 20.5 mg/l/4h (vapour)
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· **LD/LC50 values that are relevant for classification:**

**CAS: 5421-46-5 ammonium mercaptoacetate**

Oral	LD50	100 mg/kg (ATE)
	LD50.	50–200 mg/kg (rat) (OECD 423) (Registrant, ECHA: 71% solution)
Dermal	LD50	1100 mg/kg (ATE)
	LD <sub>0</sub>	>1430 mg/kg (rat) (OECD 402) ( > 2000 mg/kg of a 71 % aqueous test solution - Registrant, ECHA)
Inhalative	LC50/4h	0.5 mg/l (ATE)
	LC <sub>0</sub>	>1.95 mg/l (rat) (1h, Aerosol, OECD 402) ( > 2.75 mg/l/1h of a 71% aqueous test solution - Registrant, ECHA)

**CAS: 68-11-1 mercaptoacetic acid**

Oral	LD50	73 mg/kg (rat) (OECD 401)
Dermal	LD50	848 mg/kg (rabbit) (Registrant, ECHA)
Inhalative	LC50/4h	3 mg/l (ATE)

· **Skin corrosion/irritation** Causes severe skin burns and eye damage.

· **Serious eye damage/irritation**

Causes serious eye damage.

Risk of blindness!

· **Information on components:**

**CAS: 5421-46-5 ammonium mercaptoacetate**

Irritation of skin	OECD 404	(rabbit: slight irritation) (71 % aqueous test solution - Registrant, ECHA)
Irritation of eyes	OECD 405	(rabbit: slight irritation)

· **Respiratory or skin sensitisation** May cause an allergic skin reaction.

· **Information on components:**

**CAS: 5421-46-5 ammonium mercaptoacetate**

Sensitisation	OECD 406	(guinea pig: positive)
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**CAS: 68-11-1 mercaptoacetic acid**

Sensitisation	OECD 406	(guinea pig: negative)
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· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** Based on available data, the classification criteria are not met.

· **Information on components:**

OECD 414: Teratogenicity testing

OECD 473: Mutagenicity testing

OECD 471, 474, 476, 487: Germ cell mutagenicity testing

**CAS: 5421-46-5 ammonium mercaptoacetate**

OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)
OECD 476	(negative) (In Vitro Mammalian Cell Gene Mutation Test)
OECD 414	(negative) (Prenatal Developmental Toxicity Study) (NOEL: 75 mg/kg, 71 % test solution - SDS Registrant)

**CAS: 68-11-1 mercaptoacetic acid**

OECD 474	(negative) (Mammalian Erythrocyte Micronucleus Test)
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· **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.

· **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Information on likely routes of exposure**

The main routes of intake for thioglycolic acid proceed via the respiratory tract and through the skin.

Respiratory tract: because of the low vapor pressure an inhalative exposure is possible mainly in the form of aerosols.

Skin: based on physicochemical parameters, it was calculated that skin contact can provide a contribution to the total exposure comparable to the inhalative uptake. [GESTIS]

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Main routes of exposure: Ammonium thioglycolate is expected to enter the body through inhalative exposure and skin contact.  
[GESTIS]

#### Additional toxicological information:

CAS 68-11-1: Absorption through gastro-intestinal tract, mucous membranes

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### CAS: 5421-46-5 ammonium mercaptoacetate

(source: GESTIS)

##### Main toxic effects

Acute: Irritation to the eyes, airways and skin, allergic skin reactions for sensitized persons, regarding systemic effects no data available.

Chronic: Weakly sensitizing potential, damage to the skin (irritatively/allergically conditioned)

#### CAS: 68-11-1 mercaptoacetic acid

(source: GESTIS)

##### Main toxic effects

Acute: Irritation or corrosion to the mucous membranes and skin, danger of serious damage to the eyes, insufficient data is available regarding systemic effects

Chronic: Damage to the skin

#### 11.2 Information on other hazards

· **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

#### Other information

Other dangerous properties can not be excluded.

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

## SECTION 12: Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

#### CAS: 5421-46-5 ammonium mercaptoacetate

LC50 >100 mg/l/96h (rainbow trout) (OECD 203)  
(71 % test solution)

#### CAS: 68-11-1 mercaptoacetic acid

EC50 38 mg/l/48h (Daphnia magna)

IC50 13 mg/l/72h (Algal toxicity) (OECD 201)  
(Merck)

EC50 13 mg/l/72h (Pseudokirchneriella subcapitata) (OECD 201)

LC50 30 mg/l/96h (fathhead minnow)  
(Merck-ECOTOX)

#### 12.2 Persistence and degradability

#### CAS: 68-11-1 mercaptoacetic acid

OECD 301 D 70 % / 28 d (readily biodegradable) (Closed Bottle Test)

#### 12.3 Bioaccumulative potential

BCF = Bioconcentration factor

Pow = n-octanol/wasser partition coefficient

log Pow < 1 = Does not accumulate in organisms.

#### CAS: 5421-46-5 ammonium mercaptoacetate

log Pow -2.99 (.) (calculated)  
(pH 7, SDS Registrant)

#### CAS: 68-11-1 mercaptoacetic acid

log Pow -2.99 (.) (OECD 107)  
(ECHA, Registrant)

#### Bioconcentration factor (BCF)

#### CAS: 5421-46-5 ammonium mercaptoacetate

BCF 1 (.) (calculated)  
(SDS Registrant)

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**CAS: 68-11-1 mercaptoacetic acid**

 BCF 1 (.) (calculated)  
(SDS Registrant)

- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**  
This mixture does not contain any substances that are assessed to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB), according to the criteria given in Annex XIII of Regulation (EC) No. 1907/2006.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** Avoid transfer into the environment.
- **Water hazard:**  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.

### SECTION 13: Disposal considerations







- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Hand over to disposers of hazardous waste.

**European waste catalogue**

16 05 06\* laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                   | UN2922   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (THIOGLYCOLIC ACID, ammonium mercaptoacetate)<br>CORROSIVE LIQUID, TOXIC, N.O.S. (THIOGLYCOLIC ACID, ammonium mercaptoacetate)  |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>                           | <div style="display: flex; align-items: center; gap: 10px;">   </div> <p>· <b>Class</b> 8 (CT1) Corrosive substances.<br/>· <b>Label</b> 8+6.1</p> |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul>  | <div style="display: flex; align-items: center; gap: 10px;">   </div> <p>· <b>Class</b> 8 Corrosive substances.<br/>· <b>Label</b> 8/6.1</p>       |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>  | <div style="display: flex; align-items: center; gap: 10px;">   </div> <p>· <b>Class</b> 8 Corrosive substances.</p>                                |

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· <b>Label</b>	8 (6.1)
· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b> · <b>Kemler Number:</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b> · <b>Stowage Code</b>	Warning: Corrosive substances. 86 F-A,S-B (SGG1) Acids B SW2 Clear of living quarters.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b> · <b>Tunnel restriction code</b>	2 E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Poisons Act UK**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Regulation (EU) 2019/1148 on the marketing and use of explosives precursors** not regulated

· **Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)**

None of the ingredients is listed.

· **Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

None of the ingredients is listed.

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 13.11.2023

Version number 10 (replaces version 9)

Revision: 13.11.2023

**Product name: Iron Reagent FE6**

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**· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

**· Substances of very high concern (SVHC) according to REACH, Article 57**
This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).
**· Substances of very high concern (SVHC) according to UK REACH**
This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).
**· Directive 2012/18/EU (SEVESO III):**
**· Named dangerous substances - ANNEX I** None of the ingredients is listed.

**· REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**· Information about limitation of use:**

Employment restrictions concerning young persons must be observed (94/33/EC).

Employment restrictions concerning pregnant and lactating women must be observed (92/85/EEC).

**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

**· Training hints** Provide adequate information, instruction and training for operators.

**· Relevant phrases**

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

**· Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

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# Safety data sheet

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**Product name: Iron Reagent FE6**

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**· Sources**

Data arise from safety data sheets, reference works and literature.

ECHA: European CHemicals Agency <http://echa.europa.eu>

GESTIS- Stoffdatenbank (Substance Database, Germany)

**· \* Data compared to the previous version altered.**

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